

AD-A052 462

FEDERAL COBOL COMPILER TESTING SERVICE WASHINGTON D C  
BIBLIOGRAPHY OF CONVERSION REFERENCES, (U)

F/G 9/2

MAR 78 P OLIVER

UNCLASSIFIED

FCCTS/TR-78/01

NL

| OF |  
AD  
A052462



END  
DATE  
FILMED  
5 -78  
DDC



DEPARTMENT OF THE NAVY (ADPESO)  
FEDERAL COBOL COMPILER TESTING SERVICE  
WASHINGTON, D.C. 20376

10

AD A 052462

Introduction

This bibliography of software conversions references was compiled to be used by the Federal COBOL Compiler Testing Service in its implementation of a Federal Conversion Support Center. It includes items which deal with portability as well as conversion, reflecting the compiler's belief that problem avoidance (developing portable software) is at least as important as problem solution (conversion), and that the two issues are closely related.

No attempt has been made to give an "evaluation" of each item included -- all are useful in one way or another. Furthermore, all are readily available. Anyone contemplating a conversion would do well to read a major portion of them.

Paul Oliver  
Director, Federal COBOL  
Compiler Testing Service  
Department of the Navy  
Washington, D.C. 20376  
(202) 697-1247

AD No. \_\_\_\_\_  
DDC FILE COPY

DDC  
RECEIVED  
APR 4 1978  
B

DISTRIBUTION STATEMENT A

Approved for public release;  
Distribution Unlimited

## BIBLIOGRAPHY OF CONVERSION REFERENCES

Auerbach Publishers, Inc.  
COBOL 1968 Versus COBOL 1973  
Computer Programming Management Series, Auerbach Publishers, Inc., 1974

Auerbach Publishers, Inc.  
Portable COBOL Programming  
Computer Programming Management Series, Auerbach Publishers, Inc., 1974

Auerbach Publishers, Inc.  
Programs That Aid Programmers  
Data Processing Manual, Auerbach Publishers, Inc., 1974

Baird, G. N.  
The DOD COBOL Compiler Validation System  
Proc. 1972 AFIPS FJCC 41 (Fall, 1972), pp. 819-827

Baird, G. N. and Cook, M. M.  
Experiences in COBOL Compiler Validation  
Proc. 1974 AFIPS NCC (May, 1974), pp. 417-421

Baird, G. N. and Johnson, L. A.  
System for Efficient Program Portability  
Proc. 1974 AFIPS NCC (May, 1974), pp. 423-429

Balzer, R. M.  
Dataless Programming  
FJCC (1967)

Bemer, R. W.  
Program Transferability  
Proc. 1969 AFIPS SJCC (1969), pp. 605-612

Brown, P. J.  
Levels of Language for Portable Software  
Comm. ACM Vol. 15, No. 12 (Dec, 1972), pp. 1059-1062

Cheatham, T. E., Jr., Sammett, J. E., Steel, T. B., Jr. and Wegner, P.  
Long Range Goals and Programming Languages  
FJCC (1970)

Dellert, G. T., Jr.  
A Use of Macros in Translation of Symbolic Assembly Language of One Compiler  
to Another  
Comm. ACM Vol. 8, No. 12 (Dec, 1965), pp. 742-748

DeVogelaere, R.  
A Set of Basic Input-Output Procedures  
Comm. ACM Vol. 11, No. 8 (Aug, 1968), pp. 567-573

ACCESSION for	
NTIS	White Section <input checked="" type="checkbox"/>
DDC	Buff Section <input type="checkbox"/>
UNANNOUNCED	<input type="checkbox"/>
JUSTIFICATION	
BY	
DISTRIBUTION/AVAILABILITY CODES	
Dist. AVAIL. and/or SPECIAL	
A	

Dickman, B. N.  
ETC - An Extendable Macro-Based Compiler  
Proc. 1971 AFIPS SJCC 38 (1971), pp. 529-538

Donovan, J. J. and Ledgard, H. F.  
A Formal System for the Specification of the Syntax and Translation of  
Computer Languages  
FJCC (1967)

Elshoff, J. L.  
An Analysis of Some Commercial PL/1 Programs  
IEEE Transactions on Software Engineering (Jun, 1976)

Elspas, B., Green, M. and Levitt, C.  
Software Reliability  
Computer 4.1, IEEE Computer Society (Jan/Feb, 1971), pp. 21-27

Endies, A. B.  
An Analysis of Errors and Their Causes in System Programs  
IEEE Transactions on Software Engineering (Jun, 1975)

Englander, W. R.  
How Standard are COBOL Compilers?  
Business Automation 17.6 (Jun, 1970), pp. 65-70

Falor, K.  
Survey of Program Packages  
Modern Data 3.3 (Mar, 1970), Modern Data 3.8 (Aug, 1970)

Feldman, J. and Gries, D.  
Translator Writing Systems  
Comm. ACM Vol. 11, No. 2 (Feb, 1968), pp. 77-113

Ferguson, D. E.  
Evolution of the Meta-Assembly Program  
Comm. ACM Vol. 9, No. 3 (Mar, 1966)

Fredericks, D. S.  
Across Machine Lines in COBOL  
Comm. ACM Vol. 8, No. 12 (Dec, 1965)

Fritz, W. B.  
Computer Change at Westinghouse Defense and Space Center  
FJCC (1967)

Gaines, R. S.  
On the Translation of Machine Language Programs  
Comm. ACM Vol. 8, No. 12 (Dec, 1965), pp. 736-741



Gentleman, W. M. and Marovich, S. B.

More on Algorithms That Reveal Properties of Floating Point Arithmetic Units

Comm. ACM Vol. 17, No. 5 (May, 1974), pp. 276-277

Godsen, J. A.

Software Compatibility: What Was Promised, What We Have, What We Need  
Proc. AFIPS FJCC (1968)

Godsen, J. A.

Software Compatibility  
Proc. 1969 AFIPS SJCC (1969)

Gorn, S.

Advance Programming and the Aims of Standardization  
Comm. ACM 9.3 (Mar, 1966)

Graham, M. L and Ingerman, P. Z.

An Assembly Language for Reprogramming

Comm. ACM Vol. 8, No. 12 (Dec, 1965), pp. 769-773

Halpern, M. I.

Machine Independence: Its Technology and Economics  
Comm. ACM Vol. 8, No. 12 (Dec, 1965), pp. 782-785

Halpern, M. I.

Toward a General Processor for Programming Languages  
Comm. ACM Vol. 11, No. 1 (Jan, 1968), pp. 15-25

Halstead, M. H.

Machine Independence and Third Generation Computers  
Proc. 1962 AFIPS FJCC 22 (1962), pp. 587-592

Hollander, C. H.

A Syntax-Oriented Formal System for Defining Processes  
Proc. ACM NCC (1973), pp. 295-298

Housel, B. C.

A Study of Decompiling Machine Languages into High-Level Machine Independent Languages

CSD TR 100, Computer Science Dept., Purdue Univ., Lafayette, In. (1973)

Housel, B. C. and Halstead, M. H.

A Methodology for Machine Language Decompilation

Computer Science RJ1316 (#20557) T. J. Watson Research Center,  
Yorktown Heights, NY (Dec, 1973)

International Computer Systems, Inc.

Programming for Transferability

AD-750-897, National Technical Information Service, Springfield, Va. (1972)

Jonas, R. W.

Generalized Translation of Programming Languages  
Proc. 1967 AFIPS FJCC (Nov, 1967), pp. 570-580

Knuth, D. E.

An Empirical Study of FORTRAN Programs  
Software - Practice and Experience 1, (1971), pp. 105-133

Lecarme, O.

An Experience in Structured Programming and Transferability  
SIGPLAN Notices Vol. 8, No. 9 (Sep, 1973), pp. 95-96

Lenihan, J. F.

Are the Scales Tipping Toward Reprogramming?  
Data Management Vol. 9, No. 2 (Feb, 1971)

Mauer, W. D.

The Compiled Macro Assembler  
Proc. 1969 AFIPS SJCC 34 (1969), pp. 89-93

Mealy, G. H.

Another Look at Data  
FJCC (1967)

Merten, A. G. and Sibley, E. H.

Transferability and Translation of Data  
SIGPLAN Notices Vol. 8, No. 9 (Sep, 1973), pp. 112-114

Morenoff, E.

The Transferability of Computer Programs and the Data on Which They Operate  
Proc. 1969 AFIPS AJCC (1969), pp. 605-612

Navy, Department of

Navy COBOL Compiler Validation System User's Guide  
Information Systems Division, Dept. of the Navy, Washington, DC (Jan, 1973)

Oliver, P.

A Program for Software Quality Control  
Proc. AFIPS NCC (May, 1974), pp. 411-418

Orgass, R. J. and Waite, W. M.

A Base for a Mobile Programming System  
Comm. ACM Vol. 12, No. 9 (Sep, 1969), pp. 507-510

Parnas, D. L.

On the Design and Development of Program Families  
IEEE Transactions on Software Engineering (Mar, 1976)

Poole, P. C. and Waite, W. M.

Machine Independent Software

Proc. ACM 2nd Symposium on Operating System Principles (Oct, 1969), pp. 19-24

Richards, M.

BCPL: A Tool for Compiler Writing and System Programming

Proc. 1969 AFIPS SJCC 34 (1969), pp. 557-566

Rose, L. L. and Hellerman, H.

Portable Character Processing in FORTRAN and Fixed Integer Environments

IEEE Transactions on Software Engineering (Sep, 1976)

Ryder, B. G.

The FORTRAN Verifier: Motivation and Implementation

Bell Labs., Murray Hill, NJ (Dec, 1972)

Ryder, B. G.

The FORTRAN Verifier: User's Guide

CS Technical Report 12, Bell Labs., Murray Hill, NJ (Mar, 1973)

Sable, J. D.

Transferability of Data and Programs Between Computer Systems

Proc. 1969 AFIPS SJCC (1969), pp. 605-612

Sassaman, W.

A Computer Program to Translate Machine Language into FORTRAN

Proc. 1966 AFIPS SJCC 28 (1966), pp. 235-239

Waite, W. H.

A Language Independent Macro Processor

Comm. ACM Vol. 10, No. 7 (Jul, 1967), pp. 433-440

Ward, J. A.

Program Transferability

Proc. 1969 AFIPS SJCC (1969), pp. 605-612

Williams, D. A.

Conversion Case Study and Experience

A Hard Look at Software

American Management Association Administrative Services Briefing Session

#6379-02, American Management Association, New York, NY

<b>BIBLIOGRAPHIC DATA SHEET</b>		1. Report No. FCCTS/TR-78/01	2.	3. Recipient's Accession No.
4. Title and Subtitle <u>Bibliography of Conversion References</u>		5. Report Date 16 Mar 1978		
7. Author(s) Dr. Paul Oliver		8. Performing Organization Repr. No.		
9. Performing Organization Name and Address Federal COBOL Compiler Testing Service Department of the Navy Washington, D.C. 20376		10. Project/Task/Work Unit No.		
		11. Contract/Grant No. 12 7p1		
12. Sponsoring Organization Name and Address ADP Selection Office Department of the Navy Washington, D.C. 20376		13. Type of Report & Period Covered		
		14.		
15. Supplementary Notes				
16. Abstracts This bibliography of software conversions references was compiled to be used by the Federal COBOL Compiler Testing Service in its implementation of a Federal Conversion Support Center. It includes items which deal with portability as well as conversion, reflecting the compiler's belief that problem avoidance (developing portable software) is at least as important as problem solution (conversion), and that the two issues are closely related.				
17. Key Words and Document Analysis. 17a. Descriptors				
17b. Identifiers/Open-Ended Terms				
17c. COSATI Field/Group				
18. Availability Statement Release Unlimited	<b>DISTRIBUTION STATEMENT A</b> Approved for public release; Distribution Unlimited		19. Security Class (This Report) UNCLASSIFIED	21. No. of Pages 6
			20. Security Class (This Page) UNCLASSIFIED	22. Price